



The Macrogram

Hartford Chapter of the ASM International
Build on our Strengths - Leverage our Diversity - Network to Succeed

MONTHLY MEETING – TOPIC

May 11, 2010 (Joint with AWS) – Awards*, Past Chair & Sustaining Members Night

Topic: Technological Implications of Orbital Welding of Tubes

Speaker: Mr. Pat Duffy

Technical Representative
Connecticut Valve & Fitting Co.
Shelton, Connecticut

Directions: Margaritas Mexican Restaurant - 350 Roberts St., East Hartford, CT, Ph: (860) 289-7212
I-84 Exit 58 Roberts Street: From the East, turn right onto Roberts St. and the restaurant is immediate on the left. From the West, turn left on to Robert St. and after the first light the restaurant is immediate on the left.

Agenda:

Cocktails: 5:30-6:30 PM

Dinner: 6:30-7:30 PM

Program: 7:30-8:30 PM

Program Charges:

Regular Members - \$28.00

Retirees - \$15.00

Full Time Students - \$15.00

Technical Chairperson: Sam Christy

Reservations: Call Linda at Service Steel Aerospace (860) 583-3336 by noon May 7th.

Thanks!

Abstract:



Orbital welding is an automated GTAW (Gas Tungsten Arc Welding) process; the welded material remains stationary while the welding electrode is moved around the weld joint. The process is typically autogenous, which means that no filler is used. The autogenous welding limits the

wall thickness to approximately .16 in. or 4 mm.

If you have a need to join tubing or thin walled pipe, orbital welding may be in your future. The advantages of stainless tubing over small bore carbon pipe are many, and the installed cost may be substantially less. The growing need for systems that clean-up quickly and offer high resistance to corrosion from the inside or the environment in which it must exist make orbital welding one of the fastest growing segments of the welding industry. Train your welding operators well, establish a realistic procedure and follow it, establish an inspection procedure and implement it, buy the proper material and equipment, and the rest is easy.

Bio:



Pat Duffy used his welding experience in serving as the Metals Joining Station owner at the 2010 Hartford Area Materials Camp on April 12. At this station, each student welded copper tube specimens using a Swagelok M200 Orbital Welder. The specimen was the *take away* from this station. Learn what welding *take away* will distinguish you in your industry by attending Pat's presentation.



www.asm-hartford.org/meetings/HAMC10.htm

Third Hartford Area Materials Camp draws 69 students

On April 12, 2010, the Hartford Chapter hosted its Third Hartford Area Materials Camp. The camp was designed to allow high school students to explore the field of material science and engineering and encourage them to learn more about materials. With this goal in mind the camp created eight themed stations. Teamed with local industry professionals and UConn's Materials Advantage Chapter, ASM Hartford welcomed 69 students and six teachers from *Hartford Public High School's Academy of Engineering and Green Technology, University High School for Science and Engineering and the CT Scholars Academy from Wilbur Cross High School.*



*** Service Award**
Recipients will receive a gift based on years of membership. Awards will be presented at dinner.